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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/898,823	07/03/2001	Chris Eberspacher		1107
75	590 03/08/2004		EXAM	INER
Chris Eberspacher			TSOY, ELENA	
Unisun 587-E North Ventu Park Rd, PMB 124			ART UNIT	PAPER NUMBER
Newbury Park, CA 91320			1762	
			DATE MAILED: 03/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>				
		Application No.	Applicant(s)				
Office Action Summary		09/898,823	EBERSPACHER ET AL.				
		Examiner	Art Unit				
		Elena Tsoy	1762				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address				
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 12.	January 2004 .					
2a) □	, , ,	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	ion of Claims						
, —-	Claim(s) <u>51-61</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
•	Claim(s) is/are allowed.						
·	6) Claim(s) <u>51-61</u> is/are rejected.						
-	Claim(s) is/are objected to.		·				
,	Claim(s) are subject to restriction and/o	or election requirement.					
	ion Papers The enceitiestics is objected to by the Everning	ne.					
•	The specification is objected to by the Examine The drawing(s) filed on is/are: a)□ acce		miner				
10)	Applicant may not request that any objection to the						
11)	The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro					
11/	If approved, corrected drawings are required in re	_	2, and 2, and 2, and 1,				
12) The oath or declaration is objected to by the Examiner.							
,—	under 35 U.S.C. §§ 119 and 120	\ -					
		n priority under 35 U.S.C. & 1196	a)-(d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
a)	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior	• •					
* (application from the International Bu See the attached detailed Office action for a list	ıreau (PCT Rule 17.2(a)).					
14) 🗌 🖟	Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119(e) (to a provisional application).				
	a) \square The translation of the foreign language procedured \square						
Attachmen	at(s)						
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 12, 2004 has been entered.

Response to Amendment

Amendment filed on February 9, 2004 has been entered. Claims 1-50 have been cancelled. New claims 51-61 have been added. Claims 51-61 are pending in the application.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 51-53 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. First of all, the specification as filed does not disclose **single-phase** mixed-**metal** metal oxide particles comprising Cu, In and/or Ga. Secondly, the specification as filed does not describe a method of making single-phase mixed-**metal** metal oxide particles while **pyrolyzing**

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oxidizing atmosphere. The specification as filed discloses that while pyrolizing metal-containing compounds, metal phase can be achieved only in reducing atmosphere not in oxidizing atmosphere (See page 11, paragraph 2).

- 3. Claims 54-58 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification as filed does not describe that mixed-metal particles comprising Cu in metallic phase and In and/or Ga in an **oxide** phase by pyrolyzing droplets of solutions comprising **dissolved metals** e.g. Cu, In and/or Ga in **reducing** atmosphere *not* in oxidizing atmosphere.
- 4. Claims 59-61 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification as filed does not describe a method of making multi-phase mixed-metal **oxide** particles while pyrolyzing droplets of solutions comprising **dissolved metals** e.g. Cu, In and/or Ga in **reducing** atmosphere *not* in oxidizing atmosphere.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elena Tsoy whose telephone number is (571) 272-1429. The examiner can normally be reached on Mo-Thur. 9:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck can be reached on (571) 272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elsoy

Elena Tsoy Examiner Art Unit 1762 March 2, 2004